

■ Ratings/Characteristics

Rating (resistive load)	1 to 50 mA, 3 to 24 VDC
Minimum applicable load (reference value)	10 μ A at 1 VDC (resistive load)
Ambient operating temperature	-25°C to +70°C at 60%RH max. (with no icing or condensation)
Ambient operating humidity	35% to 85% (at +5 to +35°C)
Contact form	SPST-NO
Contact resistance (initial value)	100 m Ω max.
Insulation resistance	100 M Ω min. (at 100 VDC with insulation tester)
Dielectric strength	250 VAC, 50/60 Hz for 1 min
Bounce time	5 ms max.
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Destruction: 1,000 m/s ² {approx. 100G} max. Malfunction: 100 m/s ² {approx. 10G} max.
Durability	Standard models (OF: 0.98 N {100 gf}): 1,000,000 operations min. High-force models (OF: 1.47 N {150 gf}): 300,000 operations min. High-force models (OF: 2.55 N {260 gf}): 100,000 operations min.
Weight	Approx. 0.2 g
Degree of protection	IEC IP00
Washing	Not possible

■ Operating Characteristics

6 × 6 mm Models

Item	Type	B3FS-1000		
	Operating force (OF)	0.98 N	1.47 N	2.55 N
	Model	B3FS-10□0□	B3FS-10□2□	B3FS-10□5□
Operating force (OF)		0.98±0.29 N {100±30 gf}	1.47±0.49 N {150±50 gf}	2.55±0.69 N {260±70 gf}
Releasing force (RF)		0.2 N {20 gf} min.	0.49 N {50 gf} min.	0.49 N {50 gf} min.
Pretravel (PT)		0.25 ^{+0.2} / _{-0.1} mm		

■ Dimensions (Unit: mm)

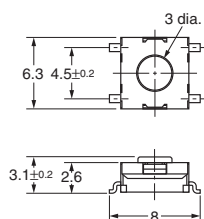
Note: The numbers used for terminals in the following graphics are indicated in the "Bottom View" diagram below. In this diagram, the Switch is rotated so that the terminals are on the right and left-hand sides, and the OMRON logo appears the right way up.



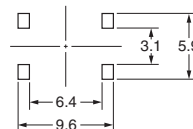
6 × 6 mm Models

Flat Type

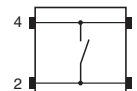
B3FS-1000
B3FS-1002
B3FS-1005
B3FS-1000P
B3FS-1002P
B3FS-1005P
B3FS-1000P-R100
B3FS-1002P-R100



PCB Pad (Top View) (PCB t= 1.6)

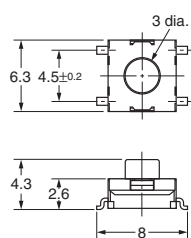


Terminal Arrangement/ Internal Connection (Top View)

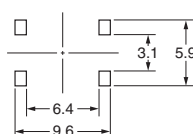


Flat Type

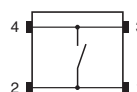
B3FS-1010
B3FS-1012
B3FS-1015
B3FS-1010P
B3FS-1012P
B3FS-1015P
B3FS-1010P-R100
B3FS-1012P-R100



PCB Pad (Top View) (PCB t= 1.6)

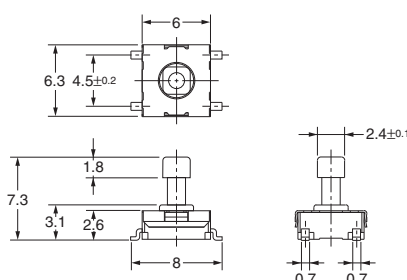
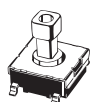


Terminal Arrangement/ Internal Connection (Top View)

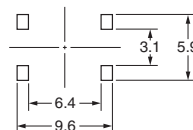


Projected Type

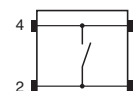
B3FS-1050
B3FS-1052
B3FS-1050P
B3FS-1052P



PCB Pad (Top View) (PCB t= 1.6)



Terminal Arrangement/ Internal Connection (Top View)



Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions. No terminal numbers are indicated on the Switches.

■ Key Tops

B32-series Key Tops are available for projected plungers. Refer to the Datasheet of B32 for details.

■ Precautions

Be sure to read the safety precautions common to all Tactile Switches for correct use.

Please check each region's Terms & Conditions by region website.

OMRON Corporation

Electronic and Mechanical Components Company

Regional Contact

Americas

<https://www.components.omron.com/>

Asia-Pacific

<https://ecb.omron.com.sg/>

Korea

<https://www.omron-ecb.co.kr/>

Europe

<http://components.omron.eu/>

China

<https://www.ecb.omron.com.cn/>

Japan

<https://www.omron.co.jp/ecb/>

© OMRON Corporation 2007-2019 All Rights Reserved.
In the interest of product improvement, specifications are subject to change without notice.

Cat. No. A113-E1-06
0719(0207)(O)